

DEC 06 2016

Work Order ID 153964***153964***

Page 2

Wednesday, November 30, 2016 2:20:01 PM

Item ID: 647.3702

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: 412 Cable Cutter System, High

Start Date: 11/30/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 12/6/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start

NR1

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00							
130									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP 647.3702								
	Location: <u><i>sold</i></u>								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.02							
Quality Control									

DAS
28
9-89DAS
27
9-89

DEC 06 2016

DAS
21
9-89

DEC 06 2016

DAS
21
9-89

DEC 06 2016

Wednesday, November 30, 2016 2:20:08 PM

153964

647 3702

Start Date: 11/30/2016**Required Date:** 12/6/2016**Start Qty: 1.00**

Required Qty: 1.00

Comments: IPP REV:A 12.10.26 NEW ISSUE DD VERF:JLM
REV:B 15.01.26 as per ecr 14-214 DD VERF:JLM
PER REV NC3 15.03.18 JLM VERIFIED BY:DD

IPP
IPP REV:C AS

[illegible]

Picklist Print

Page 2

Wednesday, November 30, 2016 2:20:08 PM

Work Order ID: 153964

153964

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/30/2016

Required Date: 12/6/2016

Start Qty: 1.00

Required Qty: 1.00

647.4010
647 4010
Wiper Deflector RH

DAS
28
9-89

Manufactured No

110 Each 10.0000 1 1

**

DEC 01 2016

DAS
6
9-89
DAS
27
9-89

Location	Loc Qty	Loc Code
cck060	10	
120740	10	

647.4011
647 4011
Wiper Deflector LH

DAS
28
9-89

Manufactured No

110 Each 8.0000 1 1

**

DEC 01 2016

DAS
6
9-89
DAS
27
9-89

Location	Loc Qty	Loc Code
cck060	8	
120741	8	

647.4110
647 4110
Doubler

DAS
28
9-89

Manufactured No

110 Each 7.0000 1 1

**

DEC 01 2016

DAS
6
9-89
DAS
27
9-89

Location	Loc Qty	Loc Code
CCK080	7	
120987	7	

647.4111
647 4111
Doubler

DAS
28
9-89

Manufactured No

110 Each 7.0000 1 1

**

DEC 01 2016

DAS
6
9-89
DAS
27
9-89

Location	Loc Qty	Loc Code
cck111	7	
120743	7	

647.4112
647 4112
Clip

DAS
28
9-89

Manufactured No

110 Each 5.0000 1 1

**

DEC 01 2016

DAS
6
9-89
DAS
27
9-89

Location	Loc Qty	Loc Code
CCK112	5	
145327	5	

Wednesday, November 30, 2016 2:20:08 PM

Shop Packet Print

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Wednesday, November 30, 2016 2:20:08 PM

Page 3

Work Order ID: 153964

153964

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/30/2016

Required Date: 12/6/2016

Start Qty: 1.00

Required Qty: 1.00

647.4113

Manufactured No

110

Each

6.0000

1

1

647 4113

Clip

**

DAS
6
9-89

DEC 01 2016 DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK112

6

145488

6

647.4114

Manufactured No

110

Each

19.0000

2

2

647 4114

Shim

**

DAS
6
9-89

DEC 01 2016 DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK112

19

120746

19

647.4115

Manufactured No

110

Each

4.0000

2

2

647 4115

Shim

**

DAS
6
9-89

DEC 01 2016 DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK112

4

120747

4

647.4116

Manufactured No

110

Each

11.0000

1

1

647 4116

Shim

**

DAS
6
9-89

DEC 01 2016 DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK112

11

121064

11

647.4210

Manufactured No

110

Each

6.0000

1

1

647 4210

Bracket LH

**

DEC 02 2016

DAS DAS
6 27
9-89 9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK112

6

121086

6

Picklist Print

Page 4

Wednesday, November 30, 2016 2:20:08 PM

Work Order ID: 153964

153964

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/30/2016

Required Date: 12/6/2016

Start Qty: 1.00

Required Qty: 1.00

647.4211
647 4211
Bracket RH

Manufactured No

110 Each 6.0000 1 1

**

DEC 01 2016

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK112

6

121134

6

647.4311
647 4311
RH Lower Strut

Manufactured No

110 Each 5.0000 1 1

**

DEC 01 2016

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK073

5

126397

5

647.4310
647 4310
LH Lower Strut

Manufactured No

110 Each 9.0000 1 1

**

DEC 01 2016

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck066

9

126395

9

647.4312
647 4312
LH Upper Strut

Manufactured No

110 Each 3.0000 1 1

**

DEC 01 2016

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK67

3

147045

3

647.4313
647 4313
RH Upper Strut

Manufactured No

110 Each 3.0000 1 1

**

DEC 01 2016

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck068

3

147046

3

Wednesday, November 30, 2016 2:20:08 PM

Shop Packet Print

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Picklist Print

Wednesday, November 30, 2016 2:20:08 PM

Work Order ID: 153964

153964

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/30/2016

Required Date: 12/6/2016

Start Qty: 1.00

Required Qty: 1.00

NAS1149FN832P Purchased

No

110

Each

2,296.000

34

34

NAS1149FN832P

Washer

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

449

M135058

449

ST260a

1500

M136182

1500

ST263

347

M135058

347

**

DEC 02 2016

DAS
6
9-89

DAS
27
9-89

NAS1149F0332P Purchased

No

110

Each

1,937.000

157

157

NAS1149F0332P

Washer

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

343

m133709

343

ST262

1594

m135948

1594

**

DEC 02 2016

DAS
6
9-89

DAS
27
9-89

MS27039-1-07 Purchased

No

110

Each

158.0000

12

12

MS27039-1-07

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

2

125654

2

ST281

156

m135948

156

**

DEC 02 2016

DAS
6
9-89

DAS
27
9-89

Picklist Print

Wednesday, November 30, 2016 2:20:08 PM

Page 6

Work Order ID: 153964

153964

Parent Item: 647.3702

647.3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/30/2016

Required Date: 12/6/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-10

Purchased

No

110

Each

385.0000

42

42

MS27039-1-10

SCREW

**

DEC 02 2016

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

17

m129541

17

over006

300

m135774

300

ST280

68

m135603

68

110

Each

295.0000

16

16

MS27039-08-08

Purchased

No

MS27039-08-08

Screw

**

DEC 02 2016

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CA

8

m130113

8

over006

200

m130325

200

ST278

87

m130113

87

110

Each

217.0000

14

14

MS27039-1-09

Purchased

No

MS27039-1-09

Screw

**

DEC 02 2016

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

FP001

34

18057

34

GA

50

124859

50

ST280

133

m125654

42

m135056

91

Wednesday, November 30, 2016 2:20:08 PM

Shop Packet Print

Page 6

Picklist Print

Wednesday, November 30, 2016 2:20:08 PM

Page 7

Work Order ID: 153964

153964

Parent Item: 647.3702

647.3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/30/2016

Required Date: 12/6/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-08-11

Purchased

No

110

Each

281.0000

2

2

MS27039-08-11

SCREW

DAS
28
9-89

Location

Loc Qty

Loc Code

over006

250

m135864

250

ST278

31

m134676

31

**

DEC 02 2016

DAS
6
9-89

DAS
27
9-89

MS24694-S49

Purchased

No

110

Each

173.0000

1

1

MS24694-S49

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

ST284

173

m129499

100

m129702

73

**

DEC 02 2016

DAS
6
9-89

DAS
27
9-89

MS24694-C53

Purchased

No

110

Each

10.0000

8

8

MS24694-C53

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

ST285

10

m129702

10

**

DEC 02 2016

DAS
6
9-89

DAS
27
9-89

601.3073

Purchased

No

110

Each

3.0000

1

1

601.3073

Connector

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK099

3

M135532

3

**

DEC 02 2016

DAS
6
9-89

DAS
27
9-89

Picklist Print

Wednesday, November 30, 2016 2:20:09 PM

Work Order ID: 153964

153964

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/30/2016

Required Date: 12/6/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-4A Purchased No

110 Each

210.0000

3

3

AN3-4A

Bolt

DAS
28
9-89

**

DAS
6
9-89

DEC 02 2016

DAS
27
9-89

Location

Loc Qty

Loc Code

ST350

210

m135704

210

AN3-11A

Purchased No

110 Each

716.0000

8

8

AN3-11A

Bolt

DAS
28
9-89

**

DAS
6
9-89

DEC 07 2016

DAS
27
9-89

Location

Loc Qty

Loc Code

over003

664

153855

564

m136192

100

ST349

52

m135767

52

AN3C10A

Purchased No

110 Each

16.0000

2

2

AN3C10A

Bolt

DAS
28
9-89

**

DAS
6
9-89

DEC 02 2016

DAS
27
9-89

Location

Loc Qty

Loc Code

OVER002

10

m136192

10

ST349

6

m135056

6

CR3212-4-2

Purchased No

110 Each

11.0000

6

6

CR3212-4-2

Cherry Rivet

DAS
28
9-89

**

DAS
6
9-89

DEC 02 2016

DAS
27
9-89

Location

Loc Qty

Loc Code

ST320

11

M130388

11

Picklist Print

Wednesday, November 30, 2016 2:20:09 PM

Page 9

Work Order ID: 153964

153964

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/30/2016

Required Date: 12/6/2016

Start Qty: 1.00

Required Qty: 1.00

CR3212-4-3 Purchased No

110 Each 100.0000 17 17

CR3212-4-3

Cherry Rivet

**

11/9/17 DEC 02 2016

DAS 6 27 9-89

Location

Loc Qty

Loc Code

CCK003

100

m135408

100

CR3212-4-4 CR3212-4-04 Purchased No

110 Each 0.0000 4 4

CR3212-4-4

CHERRY RIVET

**

DEC 02 2016

DAS 6 27 9-89

CCR264SS3-04

Purchased No

110 Each 272.0000 12 12

CCR264SS3-04

Rivet

**

DEC 02 2016

DAS 6 27 9-89

Location

Loc Qty

Loc Code

ST321

272

123785

248

m129702

24

CCR264SS-3-03 Purchased No

110 Each 224.0000 16 16

CCR264SS-3-03

Cherry Rivet

**

DEC 02 2016

DAS 6 27 9-89

Location

Loc Qty

Loc Code

LG001

15

m134023

15

ST321

209

m136182

209

DAS 28 9-89

Picklist Print

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Wednesday, November 30, 2016 2:20:09 PM

Work Order ID: 153964

153964
647 3702

Parent Item: 647.3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/30/2016

Required Date: 12/6/2016

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-2 Purchased No

110 Each 229.0000 13 13

CR3213-4-2
Cherry Rivet

**

DEC 02 2016

DAS
27
9-89

DAS
6
9-89

DAS
28
9-89

Location	Loc Qty	Loc Code
CCK003	200	
m135704	100	
m135979	100	
ST320	29	
m134058	29	

CR3213-4-3 Purchased No

110 Each 256.0000 32 32

CR3213-4-3
Rivet, Cherry

**

DEC 02 2016

DAS
6
9-89

DAS
27
9-89

DAS
28
9-89

Location	Loc Qty	Loc Code
CCK003	200	
m136042	200	
ST319	56	
m135470	56	

CR3213-4-4 Purchased No

110 Each 18.0000 19 19

CR3213-4-4
Rivet, Cherry

**

DEC 02 2016

DAS
6
9-89

DAS
27
9-89

DAS
28
9-89

Location	Loc Qty	Loc Code
ST319	18	
M135536	18	

CR3213-4-5 Purchased No

110 Each 183.0000 42 42

CR3213-4-5
Rivet

**

DEC 02 2016

DAS
6
9-89

DAS
27
9-89

DAS
28
9-89

Location	Loc Qty	Loc Code
ST319	183	
M129913	183	

Picklist Print

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Work Order ID: 153964

153964

Parent Item: 647.3702

647.3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/30/2016

Required Date: 12/6/2016

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-8

Purchased

No

110

Each

36.0000

4

4

CR3213-4-8

Rivet

DAS
28
9-89

Location

Loc Qty

Loc Code

ST319

36

123785

36

**

DEC 02 2016

DAS
6
9-89

DAS
27
9-89

MS21042-3

MS21042L3

Purchased

No

110

Each

0.0000

79

79

MS21042-3

Nut

DAS
28
9-89

Location

Loc Qty

Loc Code

ST301

43

m135671

43

**

DEC 02 2016

DAS
6
9-89

DAS
27
9-89

MS21042-08

MS21042L08

Purchased

No

110

Each

0.0000

18

18

MS21042-08

USE MS21042L08

DAS
28
9-89

Location

Loc Qty

Loc Code

ST301

12

m135566

12

**

DEC 02 2016

DAS
6
9-89

DAS
27
9-89

MS21047L06

Purchased

No

110

Each

43.0000

6

6

MS21047L06

Nut Plate

DAS
28
9-89

Location

Loc Qty

Loc Code

ST301

43

m135671

43

**

DEC 02 2016

DAS
6
9-89

DAS
27
9-89

MS21047L08

Purchased

No

110

Each

12.0000

6

6

MS21047L08

Nut Plate

DAS
28
9-89

Location

Loc Qty

Loc Code

ST301

12

m135566

12

**

DEC 02 2016

DAS
6
9-89

DAS
27
9-89

Picklist Print

Wednesday, November 30, 2016 2:20:09 PM

Work Order ID: 153964

153964

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/30/2016

Required Date: 12/6/2016

Start Qty: 1.00

Required Qty: 1.00

MS21047-3

Purchased

No

110

Each

146.0000

4

4

MS21047-3

Nut Plate

DAS
28
9-89

Location

Loc Qty

Loc Code

ST301

146

m135774

56

m136047

90

**

DEC 02 2016

DAS
6
9-89

MS21071L3

Purchased

No

110

Each

104.0000

4

4

MS21071L3

ANCHOR NUT

DAS
28
9-89

Location

Loc Qty

Loc Code

S299

100

125654

100

ST299

4

m129702

4

**

DEC 02 2016

DAS
6
9-89

601.3083

Manufactured

No

110

Each

5.0000

1

1

601 3083

Adhesive Rubber Seal

DAS
28
9-89

Location

Loc Qty

Loc Code

cck009

5

150862

5

**

DEC 01 2016

DAS
6
9-89

600.1012

Purchased

No

110

Each

16.0000

1

1

600 1012

Sealant PR1425B2 (#654 sem)

DAS
28
9-89

Location

Loc Qty

Loc Code

cck017

16

m135840

6

m136192

10

**

DEC 01 2016

DAS
6
9-89

ENTP
Date 12/2016

Picklist Print

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Wednesday, November 30, 2016 2:20:09 PM

Work Order ID: 153964

153964

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/30/2016

Required Date: 12/6/2016

Start Qty: 1.00

Required Qty: 1.00

601.2045

Purchased

No

110

Each

12.0000

1

1

601 2045

RTV (LOCTITE 598)

DEC 01 2016

DAS
27
9-89
DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK096

4

m136171

4

GA

8

m134260

8



EFFECT ON DWG
☐ INC. ☒ UNINC.

ECR:	N/A
------	-----

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 153964
16-11-30

57	D	647.3916	1	1	1	1	DEFLECTOR UPPER HALF			
6	R	647.3903	1	1	1	1	DEFLECTOR ASSEMBLY			
F/N	TC	PART NUMBER	3704	3703	3702	3701	DESCRIPTION	MATERIAL	SPECIFICATION	
			QTY							
DOCUMENTS EFFECTED:							CHANGE CATEGORY	DER REVIEW REQUIRED		
☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM							☐ MAJOR ☒ MINOR	☐ YES ☒ NO		



APICAL INDUSTRIES, INC.
dba DART AEROSPACE

ENGINEERING CHANGE NOTICE NO.

04845

SHEET 1 OF 1

DWG NO. 647.3700

REV: N/C PREPARED BY J. BECKER

DATE: 02/11/15

EFFECT ON DWG

☐ INC. ☒ UNINC.

DWG TITLE: 412 CABLE CUTTERS KIT

APPROVED BY:

ENGR

MFG

QC

EFF.

NEXT ORDER

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

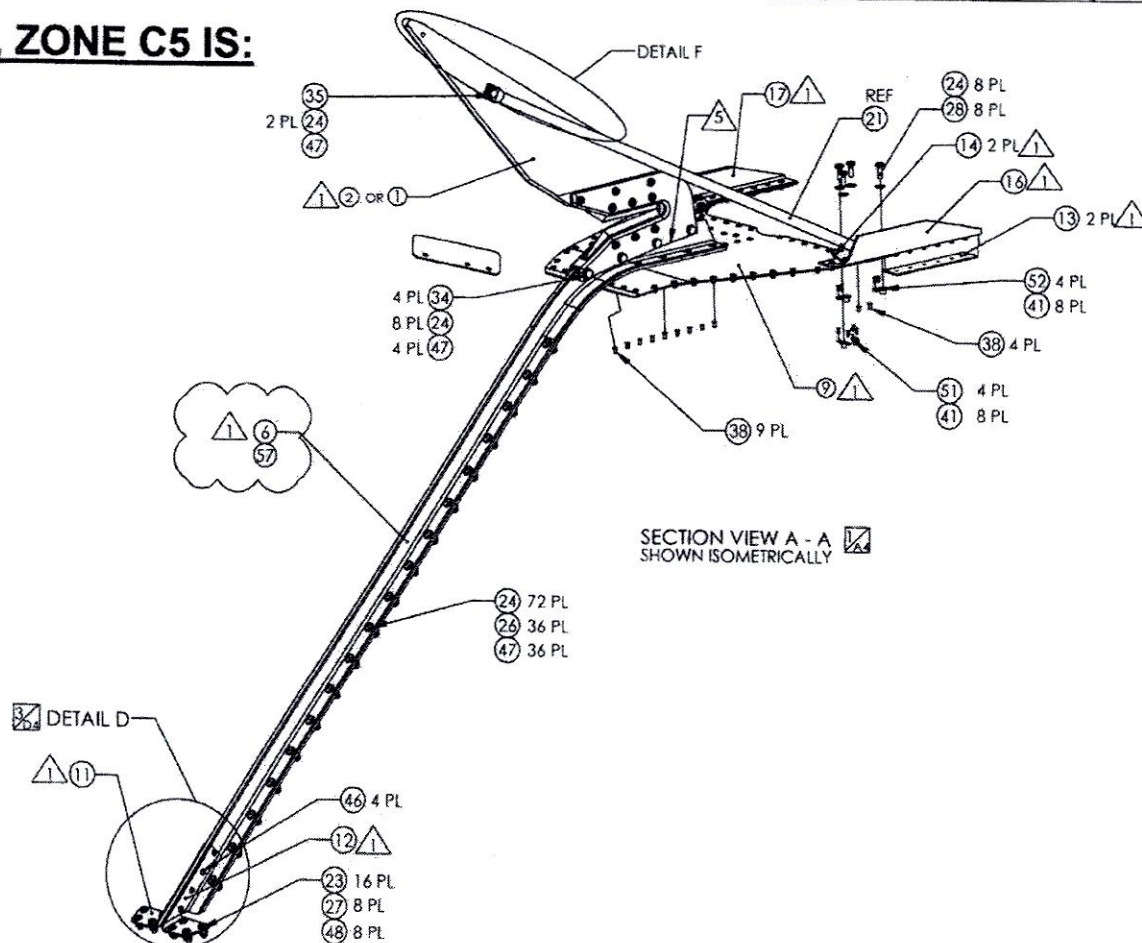
REASON: ADDED F/N 57

ECR:

ACTION ITEM:

1.

SHEET 1, ZONE C5 IS:



57	A	647.3916	1	1	1	1	DEFLECTOR UPPER HALF								
F/N/TC	PART NUMBER		3704	3703	3702	3701	DESCRIPTION				MATERIAL		SPECIFICATION		
			QTY												
DOCUMENTS EFFECTED:										CHANGE CATEGORY		DER REVIEW REQUIRED			
☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM										☐ MAJOR ☒ MINOR		☐ YES ☒ NO			

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 02728				SHEET 1 OF 1	
	DWG NO. 647.3700		REV: NC	PREPARED BY R. ROSANO	DATE: 12/23/09	EFFECT ON DWG ☐ INC. ☒ UNINC.
	DWG TITLE: 412 CABLE CUTTERS KIT					
APPROVED BY: ENGR <i>[Signature]</i>		KMFB <i>[Signature]</i>	QC <i>[Signature]</i>	EFFECT: NEXT ORDER		
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE		REASON: ADDED MODEL 214 TO APPROPRIATE DESCRIPTIONS				

SHEET 1, ZONE D7 IS:

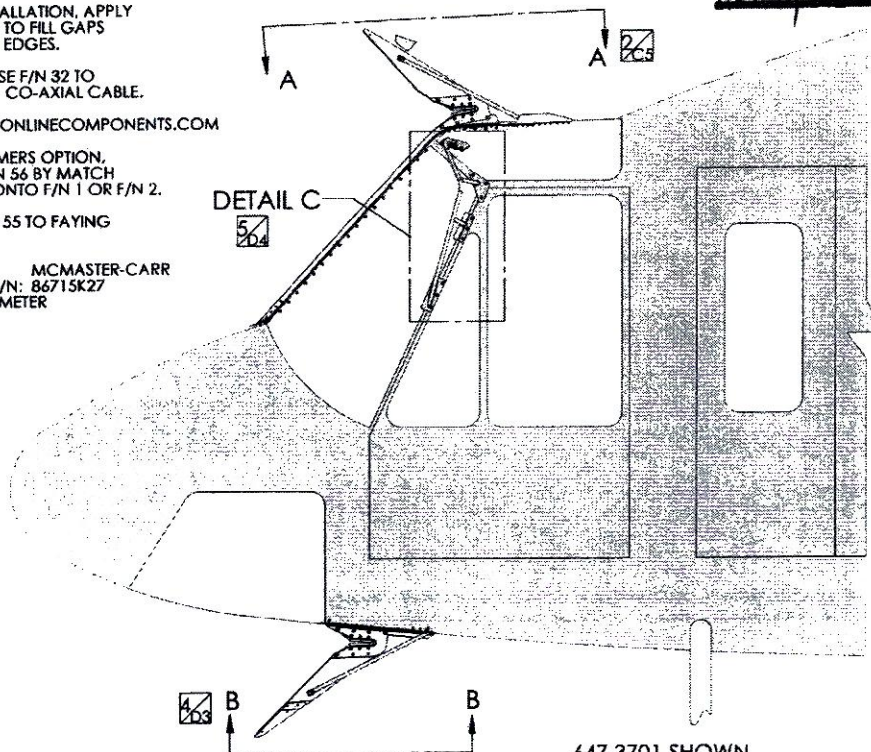
		X				647.3704	204, 205, 212, 214 CABLE CUTTERS KIT HIGH		
			X			647.3703	204, 205, 212, 214 CABLE CUTTERS KIT LOW		
				X		647.3702	412 CABLE CUTTERS KIT HIGH		
					X	647.3701	412 CABLE CUTTERS KIT LOW		
	.3704	.3703	.3702	.3701	FIND	PART #	DESCRIPTION	MAT'L	SPEC.

F/N	TC	PART NUMBER	2901	DESCRIPTION	MATERIAL	SPECIFICATION
		QTY				
DOCUMENTS EFFECTED:				☒ MDL ☒ INSTALL INSTRUC ☒ ICA ☒ BOM	CHANGE CATEGORY ☐ MAJOR ☒ MINOR	DER REVIEW REQUIRED ☒ YES ☐ NO

6 VENDOR: MCMMASTER-CARR
VENDOR P/N: 86715K27
60A DUROMETER

01728, 04845, 04881

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	LAST PROTOTYPE REVISION: PRI		N/C
N/C	INITIAL RELEASE	09-29-07	P. BRAY



647.3701 SHOWN

	REF	REF	REF	REF	56	647.5701	GPS MOUNT KIT			
	A/R	A/R	A/R	A/R	55	601.2045	RTV		LOCITE 598	
	A/R	A/R	A/R	A/R	54	601.1012	SEALANT		PR-125	
	1	1	1	1	53	601.3083	ADHESIVE RUBBER SEAL		CL550-5	
	4	4	4	4	52	601.2957	NUTPLATE		MB-6-3045	
	4	4	4	4	51	600.0795	NUTPLATE		MS2107-112	
	6	6	6	6	50	601.3066	NUTPLATE		MS21047-3	
	6	6	6	6	49	601.3065	NUTPLATE		MS21047-08	
	18	18	18	18	48	601.2973	LOCKNUT		MS21047-06	
	79	79	79	79	47	601.2943	LOCKNUT		MS21042-08	
	4	4	4	4	46	601.2364	CHERRY RIVET		MS21042-3	
	28	28	42	42	45	601.1183	CHERRY RIVET		CR3213-1-8	
	16	16	19	19	44	601.1915	CHERRY RIVET		CR3213-5-5	
	24	24	32	32	43	601.0790	CHERRY RIVET		CR3213-4-4	
	31	31	13	13	42	601.1039	CHERRY RIVET		CR3213-4-3	
	3704	3703	3702	3701	FIND	PART #	DESCRIPTION	MATL	CR3213-4-2	SPEC.

						16	16	16	41	601.2207	NUTPLATE RIVET	COR26MS-3-08	
						12	12	12	40	601.2491	NUTPLATE RIVET	CCR26MS-3-04	
						7	7	4	39	601.1066	CHERRY RIVET	CR3212-4-4	
						17	17	17	38	601.1065	CHERRY RIVET	CPX212-4-3	
						5	5	6	37	601.1604	CHERRY RIVET	CR3212-4-2	
						6	6	6	36	601.3082	CHERRY RIVET	CR3212-4-1	
						2	2	2	35	601.1874	BOLT	ANSI1DA	
						8	8	8	34	601.2826	BOLT	A-N3-11A	
						3	3	3	33	601.2823	BOLT	ANS-4A	
						!	!	!	!	32	601.3073	CONNECTOR	DST-440
						8	8	8	31	601.2419	SCREW	M5246PACSS	
						!	!	!	!	30	601.3070	SCREW	M5246P4-S49
						2	2	2	29	601.2893	SCREW	M52703P-0B-1	
						14	14	14	28	601.3069	SCREW	M52703P-1-09	
						16	16	16	27	601.2263	SCREW	M52703P-0B08	
						42	42	42	26	601.1365	SCREW	M52703P-1-10	
						12	12	12	25	601.2198	SCREW	M52703P-1-07	
						157	157	157	24	601.1607	WASHER	NAS1149F030ZP	
						34	34	34	23	601.2764	WASHER	NAS1149FNBS3P	
						!	!	!	!	22	647.4313	RH UPPER STRUT	
						!	!	!	!	21	647.4312	LH UPPER STRUT	
						!	!	!	!	20	647.4310	LH LOWER STRUT	
						!	!	!	!	19	647.4311	RH LOWER STRUT	
						!	!			18	647.4212	PLATE	
						!	!	!	!	17	647.4211	BRACKET RH	
						!	!	!	!	16	647.4210	BRACKET LH	
						!	!	!	!	15	647.4116	SHIM	
						2	2	2	2	14	647.4115	SHIM	
						2	2	2	2	13	647.4114	SHIM	
						!	!	!	!	12	647.4113	CLIP	
						!	!	!	!	11	647.4112	CLIP	
						!	!	!	!	10	647.4111	DOUBLER	
						!	!	!	!	9	647.4110	DOUBLER	
						!	!	!	!	8	647.4011	WIFER DEFLECTOR LH	
						!	!	!	!	7	647.4010	WIFER DEFLECTOR RH	
						!	!	!	!	6	647.3915	DEFLECTOR	
						!	!	!	!	5	647.4410	RAIL	
						!	!	!		4	647.3804	LOWER CUTTER ASSY HIGH	
						!	!	!	!	3	647.3803	LOWER CUTTER ASSY LOW	
						!	!			2	647.3802	212 UPPER CUTTER ASSY	
							!	!	!	1	647.3801	412 UPPER CUTTER ASSY	
										647.3704	204, 205, 212 CABLE CUTTERS KIT HIGH		
										647.3703	204, 205, 212 CABLE CUTTERS KIT LOW		
										647.3702	412 CABLE CUTTERS KIT HIGH		
										647.3701	412 CABLE CUTTERS KIT LOW		
					</								

QTY NEXT ASSY (S)		ORIGINAL DATE (MO-DA-YR) 04-29-00 DRAWN BY: J JACKSON CHECKED: D BARCEP DESIGNED: APPROVAL (SIGNED) 04-29-00 CONFIR. BY:		PARTS LIST APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA 92056-3512 (760)724-5300 412 CABLE CUTTERS KIT	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES UNLESS OTHERWISE SPECIFIED: FRACTIONS .001 DECIMALS .0004 ANGLES .5°		KIT CAGE CODE (ANG. NO.) B 07M26 647.3700 SCALE NONE SHEET 1 OF 5	

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES AND REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

DETAIL F

SECTION VIEW A - A
SHOWN ISOMETRICALLY

DETAIL D

DETAIL F
TYPICAL GPS MOUNT KIT INSTALLATION

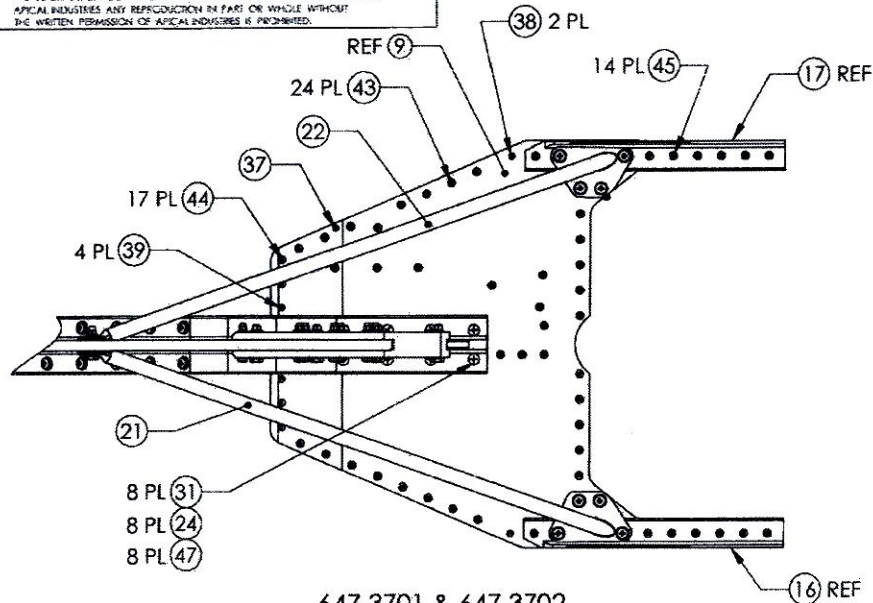
DRAWN BY J. JACKSON CHECKED BY D. BARBER DRAWING APPROVAL P. BAYD CONTRACT NO.		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA 92056-3512 (760) 724-5300 412 CABLE CUTTERS KIT	
CASE CODE B 07M6	DWG. NO. 647.3700	REV. N/C	SHEET 2 OF 5

SECTION VIEW A - A
SHOWN ISOMETRICALLY

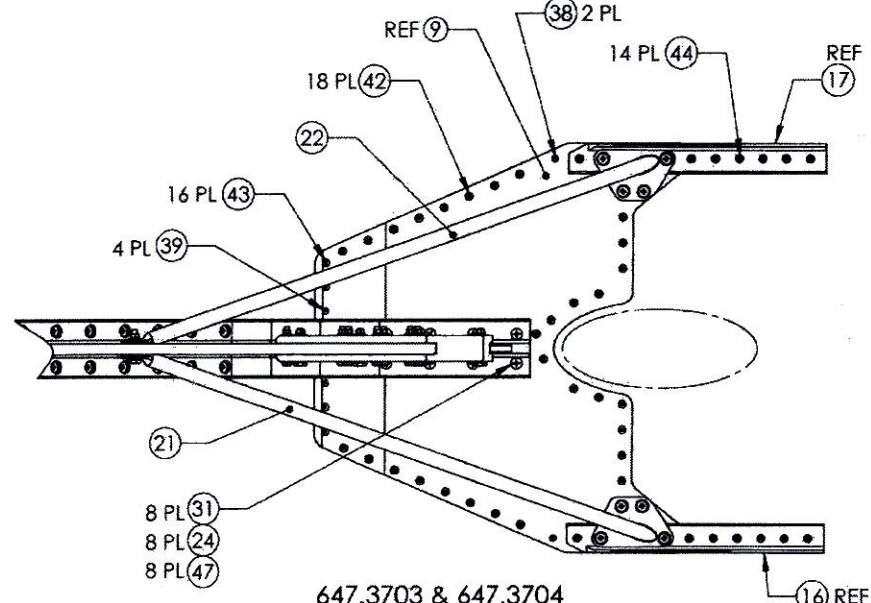
DETAIL F
TYPICAL GPS MOUNT KIT INSTALLATION

GURCHIA, DARY 240624-151 DRAWING 1. JACKSON 2. BAKER DRAWING APPROVAL P. 8140	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA 92056-3512 (760) 774-5300
CONTRACT NO.	412 CABLE CUTTERS KIT
QUANTITY: 1 PRICE: \$1,000.00 TOTAL: \$1,000.00 TAX: \$0.00 TOTAL DUE: \$1,000.00	QTY. CASE CODE DWG. NO. REV. 07/01/86 647.3700 N/C SCALE: NONE SHEET 2 OF 2

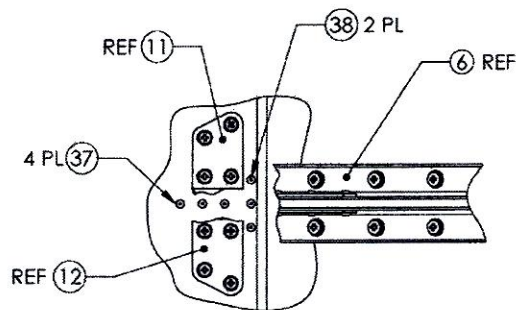
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647.3701 & 647.3702
UPPER CUTTER ASSEMBLY
TOP VIEW



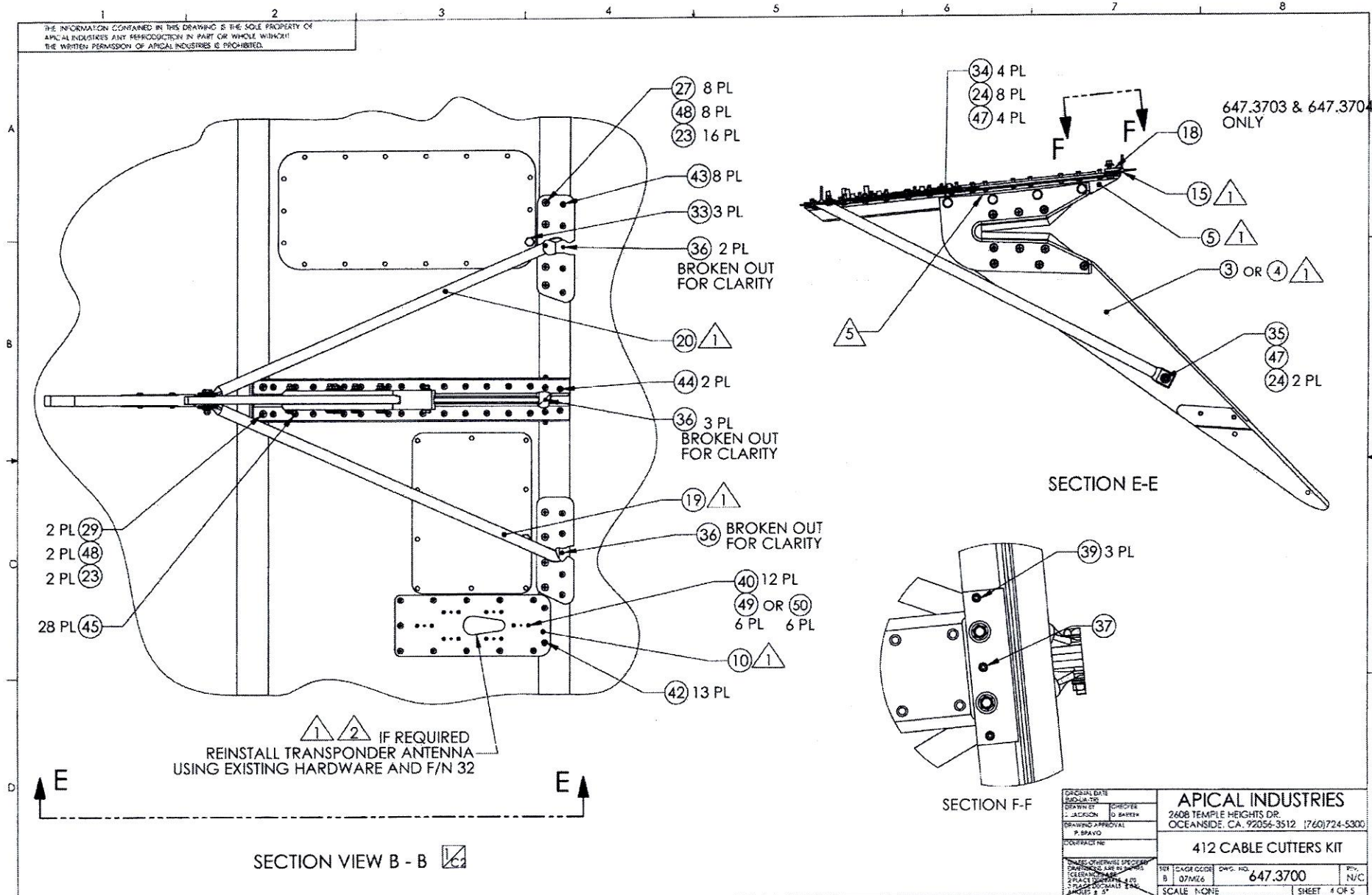
647.3703 & 647.3704
UPPER CUTTER ASSEMBLY
TOP VIEW



DETAIL D
TOP VIEW
BROKEN OUT FOR CLARITY

APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
412 CABLE CUTTERS KIT	
DATE: 01/01/01 DRAWING: 647.3700 SCALE: NONE SHEET: 3 OF 5	REV: N/C DATE: 01/01/01 DRAWING: 647.3700 SCALE: NONE SHEET: 3 OF 5

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.



ORIGINAL DATE REVISION		APICAL INDUSTRIES	
DRAWN BY J. JACKSON		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL P. BRAY		412 CABLE CUTTERS KIT	
CHECKED BY D. BAYNE		KIT CAGE CODE B 07M16	
OTHERWISE SPECIFY REVISIONS ARE TO BE MADE IN THE MARGINS OF THIS DRAWING 3 PLACE DECIMALS FOR DIMENSIONS > 5"		DWG. NO. 647.3700	
		SCALE: NONE	
		SHEET 4 OF 5	

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES AND REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

BROKEN OUT FOR CLARITY
RH SIDE ONLY

△ LH ⑧
OR
△ RH ⑦

DETAIL C 
LH SHOWN, RH OPPOSITE
2 PL

②⑧ 3 PL
②④ 6 PL
④⑦ 3 PL

⑤③ TRIM TO FIT

②⑥ 3 PL
②④ 6 PL
④⑦ 3 PL

②⑤ 6 PL
②④ 12 PL
④⑦ 6 PL

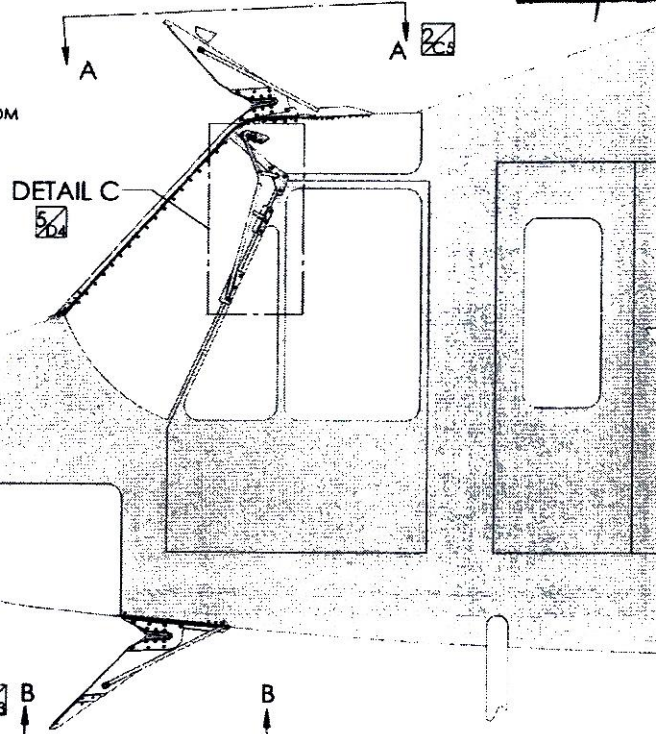
APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
412 CABLE CUTTERS KIT	
DESIGNED BY: J. MACDONALD DRAWN BY: P. BIKAL CHECKED BY: D. BARKER DATE: 07/2016	DWG. NO. 647.3700 SCALE: NONE SHEET 5 OF 5

REFERENCE ONLY

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.
- 2 IF REQ'D. USE F/N 32 TO CONNECT CO-AXIAL CABLE.
- 3 VENDOR : ONLINECOMPONENTS.COM
- 4 AT CUSTOMERS OPTION, INSTALL F/N 56 BY MATCH DRILLING ONTO F/N 1 OR F/N 2.
- 5 APPLY F/N 55 TO FAYING SURFACES.
- 6 VENDOR : MCMASTER-CARR
VENDOR P/N: 86715K27
60A DUROMETER



647.3701 SHOWN

UNINCORPORATED ECN(S)

02228, 04845, 04981

REV	DESCRIPTION	DATE	APPROVED
1	LAST REVISION: REVISION 1		
2	REVISION RELEASE	07-01-08	F. BAYO

16	16	16	16	41	601.2207	NUTPLATE RIVET	CC0264SS-3-03
12	12	12	12	40	601.2491	NUTPLATE RIVET	CC0264SS-3-04
7	7	4	4	39	601.1066	CHERRY RIVET	CR3212-4-4
17	17	17	17	38	601.1065	CHERRY RIVET	CR3212-4-5
5	5	6	6	37	601.1604	CHERRY RIVET	CR3212-4-2
6	6	6	6	36	601.3082	CHERRY RIVET	CR3212-4-1
2	2	2	2	35	601.1874	BOLT	ANB10A
8	8	8	8	34	601.2826	BOLT	ANS-11A
3	3	3	3	33	601.2823	BOLT	ANS-4A
1	1	1	1	32	601.3073	CONNECTOR	957-4440
8	8	8	8	31	601.2419	SCREW	MS2449ACSA
1	1	1	1	30	601.3070	SCREW	MS2449A-5-59
2	2	2	2	29	601.2893	SCREW	MS27037-08-1
14	14	14	14	28	601.3069	SCREW	MS2729-1-39
16	16	16	16	27	601.2263	SCREW	MS27039-0808
42	42	42	42	26	601.1365	SCREW	MS2703F-1-10
12	12	12	12	25	601.2198	SCREW	MS2703F-1-07
157	157	157	157	24	601.1607	WASHER	NAS1149F0302P
34	34	34	34	23	601.2764	WASHER	NAS1149F0302P
1	1	1	1	22	647.4313	RH UPPER STRUT	
1	1	1	1	21	647.4312	LH UPPER STRUT	
1	1	1	1	20	647.4310	LH LOWER STRUT	
1	1	1	1	19	647.4311	RH LOWER STRUT	
1	1	1	1	18	647.4212	PLATE	
1	1	1	1	17	647.4211	BRACKET RH	
1	1	1	1	16	647.4210	BRACKET LH	
1	1	1	1	15	647.4116	SHIM	
2	2	2	2	14	647.4115	SHIM	
2	2	2	2	13	647.4114	SHIM	
1	1	1	1	12	647.4113	CLIP	
1	1	1	1	11	647.4112	CLIP	
1	1	1	1	10	647.4111	DOUBLER	
1	1	1	1	9	647.4110	DOUBLER	
1	1	1	1	8	647.4011	WIPER DEFLECTOR LH	
1	1	1	1	7	647.4010	WIPER DEFLECTOR RH	
1	1	1	1	6	647.3915	DEFLECTOR	
1	1	1	1	5	647.4410	RAIL	
1	1	1	1	4	647.3804	LOWER CUTTER ASSY HIGH	
1	1	1	1	3	647.3803	LOWER CUTTER ASSY LOW	
1	1	1	1	2	647.3802	212 UPPER CUTTER ASSY	
1	1	1	1	1	647.3801	412 UPPER CUTTER ASSY	
					647.3704	204, 205, 212 CABLE CUTTERS KIT HIGH	
					647.3703	204, 205, 212 CABLE CUTTERS KIT LOW	
					647.3702	412 CABLE CUTTERS KIT HIGH	
					647.3701	412 CABLE CUTTERS KIT LOW	

REF	REF	REF	REF	56	647.5701	GPS MOUNT KIT		
A/R	A/R	A/R	A/R	55	601.2045	RTV	LOCITE 998	
A/R	A/R	A/R	A/R	54	601.1012	SEALANT	PR1225	
1	1	1	1	53	601.3083	ADHESIVE RUBBER SEAL	HL-6-3065	
4	4	4	4	52	601.2957	NUTPLATE	MS2107112	
4	4	4	4	51	600.0795	NUTPLATE	MS21047-3	
6	6	6	6	50	601.3066	NUTPLATE	MS21047106	
6	6	6	6	49	601.3065	NUTPLATE	MS21047106	
18	18	18	18	48	601.2973	LOCKNUT	MS21042-08	
79	79	79	79	47	601.2943	LOCKNUT	MS21042-3	
4	4	4	4	46	601.2364	CHERRY RIVET	CR3213-4-6	
28	28	42	42	45	601.1183	CHERRY RIVET	CR3213-4-5	
16	16	19	19	44	601.1915	CHERRY RIVET	CR3213-4-4	
24	24	32	32	43	601.0790	CHERRY RIVET	CR3213-4-3	
31	31	13	13	42	601.1039	CHERRY RIVET	CR3213-4-2	
3704	3703	3702	3701	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.

QTY		ORIGINAL DATE		PARTS LIST	
NEXT ASSY (S)		REV. DATE		APICAL INDUSTRIES	
		DRAWN BY		2808 TEMPLE HEIGHTS DR.	
		CHECKED BY		OCEANSIDE, CA. 92056-3512 (760)724-5300	
		APPROVED BY		412 CABLE CUTTERS KIT	
		CONTRACT NO.		REV. N/C	
		APPROVED BY		SCALE NONE	
		APPROVED BY		SHEET 1 OF 5	